

WHAT IS CLAIMED IS:

1. A projector, comprising:

a casing;

a plurality of inlet ports formed on the casing;

5 a plurality of outlet ports formed on the casing;

a light source positioned within the casing;

an optical engine for processing light rays from the light source and projecting an image onto a display screen; and

a fan installed within the casing to suck air streams into the casing from the
10 inlet ports and to exhaust the air streams out of the casing from the outlet ports, wherein a buffer chamber is defined among the fan, the outlet ports, and the casing, and the casing comprises:

a first housing; and

a second housing, which is retractable relative to the first housing so that a
15 volume of the buffer chamber may be changed.

2. The projector according to claim 1, wherein the light source is mounted to the casing and positioned between the inlet ports and the fan.

3. The projector according to claim 1, further comprising a driving device for moving one of the first and second housings relative to the other.

4. The projector according to claim 3, wherein the driving device comprises:

a rack attached to the first housing; and

a driving gear for driving the rack so as to move the first housing.

5. The projector according to claim 1, wherein the inlet ports and the outlet
5 ports are formed on each of the first housing and the second housing.

6. The projector according to claim 1, wherein the inlet ports and the outlet
ports are formed on the second housing and the first housing, respectively.

7. The projector according to claim 1, wherein the first housing and the
second housing are retractable relative to each other along a direction
10 perpendicular to a direction of the air streams.

8. The projector according to claim 1, wherein the first housing and the
second housing are retractable relative to each other along a direction parallel to a
direction of the air streams.